



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Freeman et al.)	Group Art Unit:
)	
Serial No: 10/649,209)	Examiner:
)	
Filed: 08/27/2003)	Attorney Docket No.: 1693-90485
)	
For: BEAMFORMED ULTRASONIC)	
IMAGER WITH DELTA-SIGMA)	
FEEDBACK CONTROL)	

INFORMATION DISCLOSURE STATEMENT


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Dear Sir:

In accordance with 37 C.F.R. §§ 1.51, 1.56, 1.97 and 1.98 applicant submits herewith the attached form PTO 1449 for consideration by the Examiner in connection with the examination of the present application. Under 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined by 37 C.F.R. §1.56(a) exists.

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Respectfully submitted,




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I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Mail Stop IDS Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-0001, on September 10, 2003.



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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

1693-90485

SERIAL NO.

10/649-209

Freeman et al.

FILING

08/27/2003

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,946,320	03/23/76	Overbury			
	4,772,871	08/20/88	Suzuki et al.			
	5,030,954	07/09/91	Ribner			
	5,144,308	09/01/92	Norsworthy			
	5,203,335	04/20/93	Noujaim et al.			
	5,241,310	08/31/93	Tiemann			
	5,446,917	08/29/95	Krisciunas et al.			
	5,461,389	10/24/95	Dean			
	5,477,859	152/26/95	Engeter			
	5,521,499	05/28/96	Goldenberg			
	5,668,777	09/16/97	Schneider			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	62-224345	10/02/87	Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Norman, O., A Band-Pass Delta-Sigma Modulator for Ultrasound Imaging at 160 MHz Clock Rate, 31 (12) IEEE Journal of Solid-State Circuits 2036-41 (December 1996)
		Baseri, R., et al., Testing Adaptive Jamming Cancellation Algorithms using a Digital Beamforming Array, Proceedings of the 1996 IEEE National Radar Conference (May 13-15, 1997)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.